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## Survey Of Information Concerning Large Diameter Deep Hole Drilling

Useful background information has been assembled in a report for engineers working on large diameter (72 inches and greater) deep hole drilling projects. It is intended as an aid in: (1) defining the limits of present large hole drilling technology; (2) comparison of current drilling costs for 72 inch and 120 inch diameter holes; (3) comparison of drilling costs of large diameter holes with those of standard sized holes; and (4) performance and cost effectiveness calculation.

The information presented covers such subjects as new drilling techniques, factors affecting penetration rates, cost estimation, and system improvement. A substantial section is devoted to new drilling concepts including novel drill bits.

Recommendations for further analysis of specific areas are also presented.

Initially written for personnel working on underground nuclear testing, the report should also be useful in industrial applications such as construction and well drilling.

### Notes:

1. The following documentation may be obtained from:  
National Technical Information Service  
Springfield, Virginia 22151  
Single document price: \$3.00  
(or microfiche \$0.95)

Reference: NVO-423-1 Large Diameter Deep Hole Drilling

2. Technical questions may be directed to:  
Mr. Glenn K. Ellis  
Technology Utilization Officer  
Office of Information Services  
U.S. Atomic Energy Commission  
Washington, D.C. 20545  
Reference: TSP72-10238

### Patent status:

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